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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/675,220	09/29/2000	Minoru Nakano	3094/FLK	1221		
75	90 05/14/2002					
SHAHAN ISLAM, ESQ. ROSENMAN & COLIN LLP 575 Madison Avenue			EXAMINER			
			EVERHART, CARIDAD			
New York, NY 10022-2585			ART UNIT	PAPER NUMBER		
			2825	· ·		
			DATE MAILED: 05/14/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

- 4					<i>K</i>
<del></del> ,		Application No.		Applicant(s)	•
Office Action Summary		09/675,220		NAKANO ET AL.	
		Examiner		Art Unit	
		Caridad M. Everha	art	2825	ddr oo
Period fo	The MAILING DATE of this communication app r Reply				aar ss
THE N - Extension - If the - If NO - Failur - Approx	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. Issions of time may be available under the provisions of 37 CFR 1.1. SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period of the to reply within the set or extended period for reply will, by statute the period by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, within the statutory mining will apply and will expire S	er, may a reply be ti num of thirty (30) da IX (6) MONTHS fron become ABANDONI	mely filed  ys will be considered tim n the mailing date of this ED (35 U.S.C. § 133).	ely. communication.
1) 🔲	Responsive to communication(s) filed on	·			
2a) <u></u> □		nis action is non-fir			
3)□ Disposit	Since this application is in condition for allow closed in accordance with the practice under ion of Claims	ance except for fo Ex parte Quayle,	rmal matters, p 1935 C.D. 11,	orosecution as to 453 O.G. 213.	the ments is
-	Claim(s) 1-14 is/are pending in the application	n.			
,,	4a) Of the above claim(s) is/are withdra	wn from consider	ation.		
5)[	Claim(s) is/are allowed.				
-	Claim(s) 1-14 is/are rejected.				
7)					
	Claim(s) are subject to restriction and/	or election require	ment.		
Applicat	tion Papers				
9)	The specification is objected to by the Examin	er.		.amino=	
10)	The drawing(s) filed on is/are: a) acce	epted or b) dbject	ed to by the ⊨x	(aminer.	۵)
	Applicant may not request that any objection to t	he drawing(s) be he	d in abeyance.	See 3/ CFR 1.05(	a).
11)□	The proposed drawing correction filed on	is: a) L approv	ea b)∟ alsapp	proved by the Exai	illitei.
	If approved, corrected drawings are required in r		tion.		,
	The oath or declaration is objected to by the E	xaminer.			
Priority	under 35 U.S.C. §§ 119 and 120			)(-) (d) on (f)	
1	Acknowledgment is made of a claim for foreign	gn priority under 3	5 U.S.C. § 118	9(a)-(d) or (i).	
а	)⊠ All b)□ Some * c)□ None of:				
	1. Certified copies of the priority docume	nts have been rec	eived.		
Ì	2. Certified copies of the priority docume	nts have been rec	eived in Applic	ation No	
*	3. Copies of the certified copies of the prapplication from the International E See the attached detailed Office action for a list	st of the certified o	opies not rece	ived.	
14)	Acknowledgment is made of a claim for dome	stic priority under	35 U.S.C. § 11	9(e) (to a provision	onal application).
	a) ☐ The translation of the foreign language p  ] Acknowledgment is made of a claim for dome	provisional applica	tion has been	received.	
Attachme					
1) No	utice of References Cited (PTO-892) utice of Draftsperson's Patent Drawing Review (PTO-948) formation Disclosure Statement(s) (PTO-1449) Paper No(s	4)	Notice of Inform	nary (PTO-413) Pape nal Patent Application	er No(s) a (PTO-152)

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## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 9, and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Anderson (US 5,790,750).

Anderson discloses a method for controlling temperature in an epitaxial process for a semiconductor device(col. 1, lines 13-16) comprising the steps of determining a set of power ratios to be fed to the heating sources (col. 8, lines 57-67 and col. 9, lines 1-30) and controlling a given temperature by performing power control on the heating sources based on at least one set of power ratios obtained in the determining step.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.

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2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 3-8, 10, and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson as applied to claim1 above, and further in view of Halpin, et al (US 6,113,702).

Anderson is silent with respect to a rotatable susceptor.

Halpin,et al. discloses a rotatable susceptor in combination with temperatue control (col. 4, lines 3-8). One of ordinary skill in the art would have been motivated to have used a system with a rotatable susceptor in order to obtain the benefits of more even processing afforded by a rotatable susceptor.

With respect to the limitations of the other dependent claims, it is considered within the ordinary skill in the art to apply the methods recited for determining the power ratios, as for example Halpin et al disclose that the power ratios may be set according to the needs for the process (col. 20, lines 53-67 and col. 21, lines 1-55). In addition,

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Anderson discloses that it is well known in the control art to use these methods of using the power ratios (col. 9, lines 5-31)

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 13 ands 14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite in that it fails to point out what is included or excluded by the claim language. This claim is an omnibus type claim.

Claims 13 and 14 do not recite structural limitations which point out applicant's invention and claim 1 upon which claims 13 and 14 depend does not recite structural limitations which point out applicant's invention. In addition, claims 13 and 14 do not further limit claim 1 upon which claims 13 and 14 depend. Claims 13 and 14 should be cancelled.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Caridad M. Everhart whose telephone number is 703-308-3455. The examiner can normally be reached on Monday through Fridays 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Smith can be reached on 703-308-1323. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

CARIDAD EVERHATT PHIMARY EXAMINER

C. Everhart May 8, 2002